Honeywell

Atomic Projection Alarm Clock

(PCR201W)

USER MANUAL

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INTRODUCTION

Thank you for selecting the Atomic Projection Alarm Clock. This device delivers precise time keeping and can project the current time onto the wall or ceiling.
In this package you will find:

- Atomic Projection Clock
- AC/DC Adapter
- User Manual

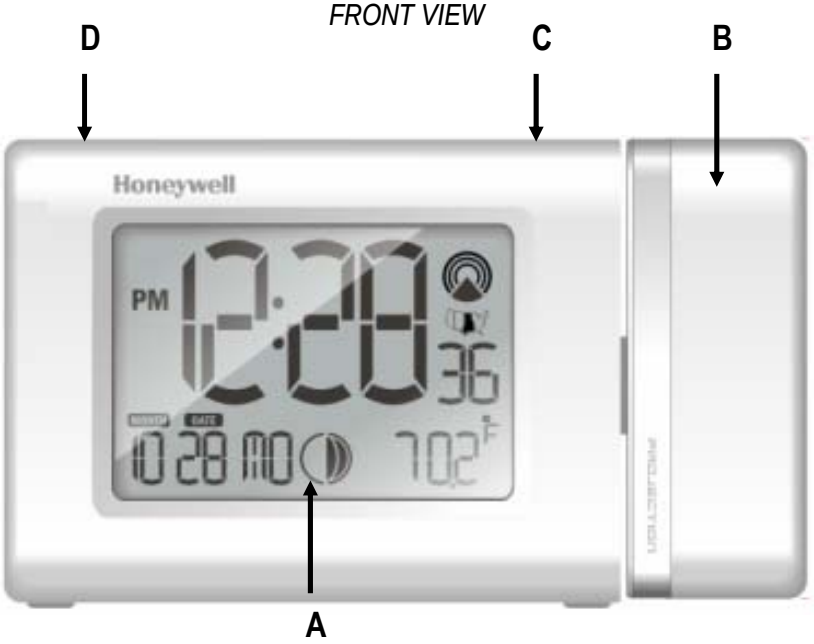
Please keep this manual handy as you use your new item. It contains practical step-by-step instructions, as well as technical specifications and precautions you should know.

PRODUCT OVERVIEW

FEATURES

- Precise time and date set via RF signals from the US Atomic Clock
- Calendar displaying date with month and day in English, Spanish or French
- 12 or 24 hour time format
- Dual crescendo time alarm with programmable snooze
- Moon phase calendar
- Indoor temperature
- Temperature unit selection in Fahrenheit or Celsius
- Projects time or temperature on ceiling or wall
- Focus adjustment
- Control image with 180° rotation or flip
- Amber LED backlight
- AC/DC adapter included for continuous projection

FRONT VIEW



A. ATOMIC CLOCK WITH TWO LINE DISPLAY

- Time, Date, Day, Moon Phase, Temperature and Time Zone

B. PROJECTOR

- Projects current time or temperature onto the wall or ceiling.
- Rotates to project on wall or ceiling.

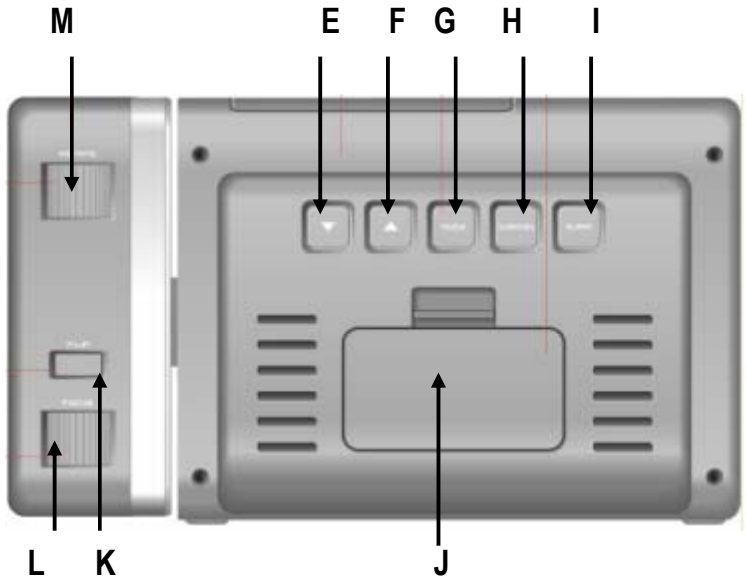
C. SNOOZE/LIGHT button

- Activates snooze feature and amber backlight for 5 seconds.

D. LIGHT SENSOR

- Activates continues projection at low light conditions (less than 100LUX) **when power adapter is connected.**

REAR VIEW



E. DOWN arrow button (▼)

- Decreases all function parameters
- Activates the atomic time signal reception when pressed and held with **UP**(▲) button
- Press & Hold to select the language for day of the week (English, French, Italian, Spanish, German).

F. UP arrow button (▲)

- Increases all function parameters.
- Activates the atomic time signal reception when pressed and held with **DOWN**(▼) button
- Press to select either 12 or 24 hour time format
- Activates US Time Zone selection mode.

G. MODE button

- Press to select: **ALARM 1**, **ALARM 2** or **Temperature**
- Press & hold for 2-3 seconds to set the date and time manually.

H. SET button

- Allows programming **ALARM 1** and its snooze interval
- Activates or deactivates **ALARM 1**

I. SET button

- Allows programming **ALARM 2** and its snooze interval
- Activates or deactivates **ALARM 2**

J. BATTERY COMPARTMENT

Accommodates 2 (two) UM-3 or AA 1.5V alkaline batteries

K. FLIP BUTTON

- Press to flip the projected image 180°.
- Press and hold for 2-3 seconds to alternate projection display between time & temperature

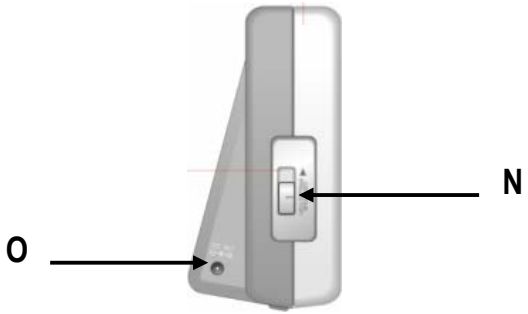
L. FOCUS knob

Allows adjusting the projected image sharpness

M. ROTATE knob

Allows rotating of the projected image clockwise or counterclockwise

SIDE VIEW



N. "CONTINUE PROJECTION" switch

Activates the continuous projection function

O. AC/DC ADAPTER INPUT

Provides power via **AC/DC** adapter

GETTING STARTED

- We recommend using alkaline batteries.
- Avoid using rechargeable batteries as they may not provide appropriate power levels.
- Insert batteries and power adapter before use.

IMPORTANT NOTES:

1). The Atomic Projection Clock does not work without the batteries installed, even if AC adapter is connected.

2). Continuous projection is designed to work only at lower light conditions (at 100LUX and lower)

During the day to check if continuous projection works, slide the "CONTINUE PROJECTION" switch to the UP position, cover the light sensor with the palm of your hand when AC adapter connected and batteries are installed.

BATTERY INSTALLATION

- Open the battery compartment door.
- Install 2 batteries (UM-3 or "AA" size 1.5V) matching the polarity as shown in the battery compartment.
- Replace the battery compartment door.

NOTE: Unit will display a "Low Battery" indicator when batteries age.

WWVB RADIO CONTROLLED TIME

The **NIST** (National Institute of Standards and Technology) radio station (**WWVB**) is located in Ft. Collins, Colorado. It transmits an exact time signal continuously throughout the most of the continental United States at 60 KHz frequency. The Atomic Projection Clock can receive this **WWVB** signal through the internal antenna from up to 2,000 miles away. Due to the nature of the Earth's ionosphere, reception can be limited during the daylight hours. The radio controlled clock will search for an alternate station that receives the atomic time signal from the **NIST** Atomic clock in Boulder, Colorado.

The **WWVB** tower icon on the unit's display will flash indicating a radio signal reception from the **WWVB** station. If the tower icon is not fully lit, or if the time and date are not set automatically, please consider the following:

- During night-time hours, atmospheric disturbances are typically less severe and radio signal reception may improve. A single daily reception is sufficient enough to keep the clock accuracy within 1 second.
- Make sure the unit is positioned at 8 feet (2 meters) distance from any interference source such as a TV, computer monitor, microwave, etc.
- Within concrete wall rooms such as basements or office buildings, the received signal may be weakened. Always place the Atomic Projection Clock near the window for better reception.

ATOMIC CLOCK OPERATION

Immediately after installation of batteries, the clock will beep and display all available LCD segments for a moment. Then the atomic time signal receiver will start searching for the atomic time signal. It usually takes between 5-8 minutes.

NOTE: **Do not press any buttons on the unit during auto search as it may interrupt product's operation, and you will need to start the set up procedure again**.

If the reception is successful and the atomic time signal is received, the date and time will be set automatically, and the [ ] icon will appear on the display.

NOTE: It is necessary to set your Time Zone, keeping in mind that the default zone is a Pacific Standard Time (PST). (Refer to **MANUAL SETTINGS** section**)**

If the initial reception was not successful and the time signal has not been received in this first 8 minutes, you may press and hold the **UP (▲)** and **DOWN (▼)** arrow buttons simultaneously to enforce a signal search. Or, you can use the **MODE** button to set the time and date manually. (Refer to the **MANUAL SETTINGS** section).

After the clock is set manually, place it by the window for the better reception. The atomic time receiver is programmed so that it will continue to search for the atomic time signal daily for every hour between 1:00 am and 4:30 am.

NOTE: At the time of the initial reception allow at least 24 hours for the atomic time receiver to pick up the signal. In some cases, depending on the location, it may take up to 72 hours.

Once the time signal has been successfully received, the time and the date will be updated automatically.

CALENDAR AND CLOCK DISPLAY MODES

The Atomic Alarm Clock has three display modes – the **CURRENT TIME** and **ALARM ONE**, the **CURRENT TIME** and **ALARM TWO** and the **CURRENT TIME** and **INDOOR TEMPERATURE.** .

The **AL1** or **AL2** alarm modes are shown on the bottom right corner of the display and alternate with the temperature reading. The current time is

displayed in hour-minutes-seconds format on the top line.
The date is shown in month-date-day of the week format on the second line.
The day of the week is represented as two characters to the right of the date (MO=Monday, etc).
The current phase of the moon icon is displayed next to the day of the week.

PROJECTION

The Atomic Projection Clock is capable of projecting the information for a limited time, as well as continuously. For projection of the image on the wall or ceiling, rotate the projector 180 degrees.

LIMITED TIME PROJECTION

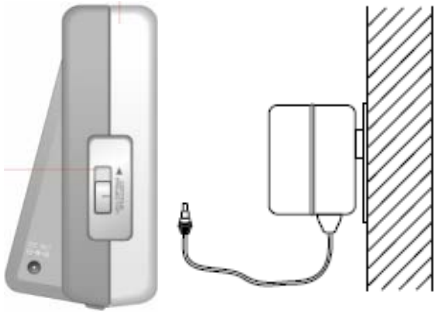
- Press **SNOOZE/LIGHT** button once to project the current time image in red color for three seconds.

- Press **FLIP** button to rotate projected image 180° clockwise

- Press and hold **FLIP** button for 2 seconds again and the projected image will rotate between the **time** and **indoor temperature** information every 5 seconds

CONTINUOUS TIME AND TEMPERATURE PROJECTION

Continuous projection of time or temperature on the wall or ceiling is automatic with low light conditions. For proper operation keep the low light sensor on the top of unit, free of dust



- Connect **AC/DC** adapter provided to the adapter input to project the time or temperature image continuously.
- Slide the **CONTINUOUS PROJECTION** switch in the direction of the arrow shown on the unit. The current time will be projected uninterrupted.

MANUAL SETTINGS

If desired, the time, date and other available parameters can be programmed manually. It is necessary to set your Time Zone manually.

SETTING TIME ZONE

The default Time Zone setting for the clock is Pacific Standard Time and is displayed in the upper right corner above the seconds in the Time line.

- Enter the US Time Zone programming mode by pressing and holding the **UP (▲)** button for 3 seconds.

- Keep holding **UP (▲)** button until the desired time zone (Pacific, Mountain, Central or Eastern) is highlighted on the unit's display map in the **Time line**
- Release the **UP (▲)** button and the desired Time Zone will be selected

SETTING CLOCK TIME

- Press and hold **MODE** button for 3 seconds until the **year** digits in the **Calendar line** will flash
- Press **UP (▲)** or **DOWN (▼)** adjusting to correct year
- Press **MODE** to confirm and move to the next parameter – the month digit will flash
- Press **UP (▲)** or **DOWN (▼)** adjusting the current **month** and then press **MODE** to confirm – the date digit will flash
- Press **UP (▲)** or **DOWN (▼)** adjusting the **date** and then press **MODE** to confirm – the hour digit will flash in the **Time line**
- Press **UP (▲)** or **DOWN (▼)** adjusting the **hour** and then press **MODE** to confirm – the **minutes** will flash
- Press **UP (▲)** or **DOWN (▼)** adjusting the minutes and then press **MODE** to confirm – the temperature unit (**C** or **F**) in the **Temperature and Alarm line** will flash
- Press **UP (▲)** or **DOWN (▼)** button once selecting the temperature unit in Fahrenheit or Celsius
- Press **MODE** for the last time to confirm after the last parameter is set

DAY OF THE WEEK LANGUAGE

- Press and hold **DOWN (▼)** button for 3 seconds to enter into the day

of the week language programming mode: the default language abbreviation will appear (example – **EN**).

- Continue holding **DOWN (▼)** button until the desired day of the week language abbreviation is displayed.
- Release the **DOWN (▼)** button and the day of the week will be displayed in selected language.

ALARMS

The Atomic Projection Clock has dual alarm with programmable snooze interval. If any of the alarms is activated, it will sound at the set time and the alarm icon will flash Mondays through Fridays.

SETTING THE ALARM

- Press **MODE** button to view the **ALARM 1** or **ALARM 2** modes. If the **AL 1** is selected, the default time "**6:00**" with the **AL1** label will be displayed. If the **ALARM 2** is selected, the default time**"8:00**"with the **AL 2** label will be displayed
- Press and hold **SET** button for three seconds - the hour digit will flash
- Enter the hour using **DOWN (▼)** or **UP (▲)** buttons
- Press **SET** button once - the minute digits will flash
- Enter minutes using **DOWN (▼)** or **UP (▲)** buttons
- Press **SET** button once again. The minute digits for snooze interval will flash
- Enter the desired interval in minutes (from 1 to 59) using **DOWN (▼)** or **UP (▲)** buttons
- Press **SET** button once confirming the **ALARM 1** time is set.

- Use the same procedure for setting the time for **ALARM 2**

ACTIVATING OR DEACTIVATING THE ALARMS

- At any time press **SET** or **SET** to activate or deactivate applicable alarm
- When **ALARM 1** and **ALARM 2** are disabled, an applicable icon or disappears from the unit's display.

SNOOZE

When the alarm sounds, press the **SNOOZE/LIGHT** button to temporarily stop the alarm. After the **SNOOZE/LIGHT** is pressed, the display will illuminate and the alarm will temporarily silence and then resume five minutes later. If the alarm is not disabled after that, it will continue to sound for four additional minutes and then stop automatically.

MOON PHASE

Eight phases of the moon are displayed and automatically updated based on the calendar date.

PRECAUTIONS

This product is engineered to give you years of satisfactory service if handled carefully. Here are a few precautions:

- Do not immerse the unit in water.
- Do not clean the unit with abrasive or corrosive materials.
- Do not subject the product to excessive force, shock, dust, temperature, or humidity, which may result in malfunctions, shorter lifespan, damaged batteries, and damaged parts.
- Do not tamper with the unit's internal components. Doing so will invalidate the warranty and may cause damage.
- Use only fresh batteries. Do not mix new and old batteries.
- Read the user's manual thoroughly before operating the unit.

TROUBLESHOOTING

Check here before contacting customer service.

Issue	Symptom	Solution
Clock	US Atomic Time signal is not received	Place unit by the window and keep it there at least overnight
Clock	Blank display	Check/insert batteries
	Does not project continuously	Connect the clock to the wall power outlet using AC/DC adapter provided, Slide the "**CONTINUE PROJECTION"** switch in the direction of the arrow shown on the unit.

SPECIFICATIONS

Projection

Projection type: Adjustable direction
Red Time or Temperature projected display
Projected image with 180° rotation and flip

Calendar and Clock

12/24 hour display in hh: mm: ss format
Date format: month – day format
Four user-selectable US Time Zones
Day of the week: User-selectable in three languages (English, Spanish or French)
Dual Alarm with programmable snooze
Snooze programming interval: 01 to 59 minutes
Moon phase

Power

2 AA size (UM-3) 1.5V batteries (not included)
AC/DC adapter (AC/DC6V, 120mA)

Dimensions

7.0(W) x 4.25(H) x 2.0(D) inches

STANDARD WARRANTY INFORMATION

This product is warranted from manufacturing defects for one year from the date of retail purchase. It does not cover damages or wear resulting from accident, misuse, abuse, commercial use, or unauthorized adjustment and repair.

Note: Online product registration is required to ensure warranty protection.

To register your product, go to our Company website at: www.hidekielectronics.us/Support.html. Click Register a New Product.

Should you require assistance with this product and its operation, please contact our Customer Service 1(866) 443-3543.

Please direct all returns to the place of the original purchase. Should this not be possible, contact Hideki Customer Service for assistance and to obtain a Return Merchandise Authorization (RMA). Returns without a return authorization will be refused. Please retain your original receipt as you may be asked to provide a copy for proof of purchase.

Hideki Electronics, Inc. reserves the right to repair or replace the product at our discretion.

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